

Department of Science and Humanities
 Board of Studies – B.Sc. (Mathematics, Statistics, Computer Science)
 Minutes of Meeting

Date : 08. 07. 2017

Members Present:

1. Dr.N.Srinivasu, HoD and Chairman,VFSTR University
2. Dr.R.SrinivasaRao, Professor of Mathematics, RVR & JC College
3. Dr.P.L.N.Varma, Professor of Mathematics, VFSTR University
4. Dr.P.Kalpna, Asst. Professor,VFSTR University
5. Mr.U. V.Manoj Kumar,Asst. Professor,VFSTR University

The Board of Studies members met today and discussed the syllabus of various courses for the proposed B.Sc.Course. It is decided that the curriculum follows choice based credit system. Stakeholder’s feedback has been considered in designing this curriculum.The finalised course structure is given in appendix I.All the courses cater to either employability, entrepreneurship or skill development (appendix II).

After detailed discussion, the syllabus for the following courses was finalised.

Domain Specific Course1- Mathematics

Semester I	DSC-1 Paper 1	Differential Equations
Semester II	DSC-1 Paper 2	Geometry
Semester III	DSC-1 Paper 3	Group Theory
Semester IV	DSC-1 Paper 4	Real Analysis
Semester V	DSC-1 Paper5 DSC-1 Paper 6	Ring Theory and Vector Calculus Linear Algebra
Semester VI	DSC-1 Paper 7 (Elective)	Laplace Transformations Numerical Analysis Number Theory
	DSC-1 Paper 8,9, 10 (Cluster Elective)	Cluster (A) Integral Transformations Advanced Numerical Analysis Project work Cluster (B) Mechanics

		Fluid Mechanics Project Work Cluster (C) Graph Theory Applied Graph Theory Project Work
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Domain Specific Course 2 – Statistics(with Mathematics Combination)

Semester I	DSC-2 Paper 1	Descriptive Statistics and Probability, Practicals
Semester II	DSC-2 Paper 2	Mathematical Expectations and Probability Distributions, Practicals
Semester III	DSC-2 Paper 3	Statistical Methods, Practicals
Semester IV	DSC-2 Paper 4	Statistical Inference, Practicals
Semester V	DSC-2 Paper 5	Sampling Techniques and Design of Experiments, Practicals
	DSC-2 Paper 6	Statistical Quality Control and Reliability, Practicals
Semester VI	DSC-1 Paper 7 (Elective)	Applied Statistics, Practicals Computer Programming and Data Analytics, Practicals
	DSC-1 Paper 8, 9 & 10 (Cluster Electives)	Cluster (D) Operations Research Econometrics Project work

N. Srinivasu
(Dr. N. Srinivasu)

R. Srinivasa Rao
(Dr. R. Srinivasa Rao)

P. L. N. Varma
(Dr. P. L. N. Varma)

P. Kalpana
(Dr. P. Kalpana)

U. V. Manoj Kumar
(U. V. Manoj Kumar)

The Structure of the Course – Semester wise

Course Code	Course Title	L	T	P	C
	English I	3			3
	English Proficiency and Communication Skills I	3			3
	Environmental Studies	2			2
	Fundamentals of Computer Science I	2			2
	Fundamentals of Computer Science I Lab			2	1
	Differential Equations	5			5
	Descriptive Statistics and Probability	4			4
	Descriptive Statistics and Probability Lab			2	1
	Computer Fundamentals and Photoshop	4			4
	Computer Fundamentals and Photoshop Lab			2	1

Semester II

Course Code	Course Title	L	T	P	C
	English II	3			3
	English Proficiency Communication Skills II	3			3
	General Studies I	2			2
	Fundamentals of Computer Science II	2			2
	Geometry	5			5
	Mathematical Expectations and Probability Distributions	4			4
	Mathematical Expectations and Probability Distributions Lab			2	1
	Programming in C	4			4
	Programming in C Lab			2	1

Semester III

Course Code	Course Title	L	T	P	C
	Business English Communication I	3			3
	Business English Communication II	3			3
	Analytical Skills I	2			2
	General Studies II	2			2
	Group Theory	5			5
	Statistical Methods	4			4
	Statistical Methods Lab			2	1
	Data Structures	4			4
	Data Structures Lab			2	1

Semester IV

Course Code	Course Title	L	T	P	C
	Analytical Skills II	2			2
	General Studies III	2			2
	Employability Skills	2			2
	Human Values / Professional Ethics	2			2
	Real Analysis	5			5
	Statistical Inference	4			4
	Statistical Inference Lab			2	1
	Object Oriented Programming using Java	4			4
	Object Oriented Programming using Java Lab			2	1

Semester V

Course Code	Course Title	L	T	P	C
	Ring Theory and Vector Calculus	5			5
	Linear Algebra	5			5
	Sampling Techniques and Design of Experiments	4			4
	Sampling Techniques and Design of Experiments Lab			2	1
	Quality, Reliability	4			4
	Quality, Reliability Lab			2	1
	DBMS	4			4
	DBMS Lab			2	1
	Software Engineering	4			4
	Software Engineering Lab			2	1

Semester VI

Course Code	Course Title	L	T	P	C
	Paper – 7* Laplace Transformations Numerical Analysis Number Theory	5			5
	Cluster Electives** Cluster (A) Integral Transformations Advanced Numerical Analysis Project Work Cluster (B) Mechanics Fluid Mechanics Project Work Cluster (C) Graph Theory Applied Graph Theory Project Work	5+5			5+5+6
	Paper – 7* Applied Statistics	5			5

	Computer Programming and Data Analytics				
	Cluster Electives Cluster (D) Operations Research Econometrics Project work	5+5			5+5+6
	Paper – 7* Operating Systems Computer Network Web Technologies	5			5
	Cluster Electives Cluster (E) Foundations of Data Science Big Data Technology Computing for Data Analysis Project Work Cluster (F) Distributed Systems Cloud Computing Grid Computing Project Work	5+5			5+5+6

*Candidate will choose one paper from paper 7 in each subject

**Candidate will choose any one cluster and studies two subjects in that cluster along with the project.

English I	Skill development
English Proficiency and Communication Skills I	Employability
Environmental Studies	Skill development
Fundamentals of Computer Science I with Lab	Skill development
Differential Equations	Skill development
Descriptive Statistics and Probabilitywith Lab	Skill development
Computer Fundamentals and Photoshop with Lab	Skill development
English II	Skill development
English Proficiency Communication Skills II	Employability
General Studies I	Skill development
Fundamentals of Computer Science II	Skill development
Geometry	Skill development
Mathematical Expectations and Probability	Skill development
Distributions with Lab	
Programming in C with Lab	Skill development
Business English Communication I	Employability
Business English Communication II	Employability
Analytical Skills I	Employability
General Studies II	Employability
Group Theory	Skill development
Statistical Methodswith Lab	Skill development
Data Structures with Lab	Skill development
Analytical Skills II	Skill development
General Studies III	Skill development
Employability Skills	Employability
Human Values / Professional Ethics	Employability
Real Analysis	Skill development
Statistical Inferencewith Lab	Skill development
Object Oriented Programming using Javawith Lab	Skill development
Ring Theory and Vector Calculus	Skill development
Linear Algebra	Skill development

Sampling Techniques and Design of Experimentswith Lab	Skill development
Quality, Reliabilitywith Lab	Skill development
DBMSwith Lab	Skill development
Software Engineeringwith Lab	Skill development
Laplace Transformations	Skill development
Numerical Analysis	Skill development
Number Theory	Skill development
Integral Transformations	Skill development
Advanced Numerical Analysis	Skill development
Mechanics	Skill development
Fluid Mechanics	Skill development
Graph Theory	Skill development
Applied Graph Theory	Skill development
Applied Statistics	Skill development
Computer Programming and Data Analytics	Skill development
Operations Research	Skill development
Econometrics	Skill development
Operating Systems	Skill development
Computer Network	Skill development
Web Technologies	Skill development
Foundations of Data Science	Skill development
Big Data Technology	Skill development
Computing for Data Analysis	Skill development
Distributed Systems	Skill development
Cloud Computing	Skill development
Grid Computing	Skill development
Project Work	Skill development

English I	New Course
English Proficiency and Communication Skills I	New Course
Environmental Studies	New Course
Fundamentals of Computer Science I with Lab	New Course
Differential Equations	New Course
Descriptive Statistics and Probability with Lab	New Course
Computer Fundamentals and Photoshop with Lab	New Course
English II	New Course
English Proficiency Communication Skills II	New Course
General Studies I	New Course
Fundamentals of Computer Science II	New Course
Geometry	New Course
Mathematical Expectations and Probability Distributions with Lab	New Course
Programming in C with Lab	New Course
Business English Communication I	New Course
Business English Communication II	New Course
Analytical Skills I	New Course
General Studies II	New Course
Group Theory	New Course
Statistical Methods with Lab	New Course
Data Structures with Lab	New Course
Analytical Skills II	New Course
General Studies III	New Course
Employability Skills	New Course
Human Values / Professional Ethics	New Course
Real Analysis	New Course
Statistical Inference with Lab	New Course
Object Oriented Programming using Java with Lab	New Course
Ring Theory and Vector Calculus	New Course
Linear Algebra	New Course
Sampling Techniques and Design of Experiments with Lab	New Course
Quality, Reliability with Lab	New Course
DBMS with Lab	New Course
Software Engineering with Lab	New Course
Laplace Transformations	New Course
Numerical Analysis	New Course
Number Theory	New Course
Integral Transformations	New Course

Advanced Numerical Analysis	New Course
Mechanics	New Course
Fluid Mechanics	New Course
Graph Theory	New Course
Applied Graph Theory	New Course
Applied Statistics	New Course
Computer Programming and Data Analytics	New Course
Operations Research	New Course
Econometrics	New Course
Operating Systems	New Course
Computer Network	New Course
Web Technologies	New Course
Foundations of Data Science	New Course
Big Data Technology	New Course
Computing for Data Analysis	New Course
Distributed Systems	New Course
Cloud Computing	New Course
Grid Computing	New Course
Project Work	New Course
Integral Transformations	New Course
Advanced Numerical Analysis	New Course
Mechanics	New Course
Fluid Mechanics	New Course
Graph Theory	New Course
Applied Graph Theory	New Course
Integral Transformations	New Course
Advanced Numerical Analysis	New Course
Mechanics	New Course
Fluid Mechanics	New Course
Graph Theory	New Course
Applied Graph Theory	New Course